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(57)Abstract:

PROBLEM TO BE SOLVED: To obtain an air gap structure, having high ink absorbing property by employing necessary minimum fine solid particles and hydrophilic binder by a method wherein an air gap layer is formed of the soft aggregation or the hydrophilic binder and inorganic fine particles while the hydrophilic binder is crosslinked by hardener.

SOLUTION: An air gap structure is formed in a skin film by forming a soft aggregation by a method wherein primary ultrafine particles under a dispersed condition in water solution containing a hydrophilic binder preferably are passed through mutually aggregated condition in a comparatively limited condition of the contacting point thereof. When the primary ultrafine particles are formed in a water solution having a water-soluble binder capable of effecting weak combination between the surface of the primary grains, the amount of air gaps is comparatively easily controlled and formed in a stable, larger amount of air gaps, compared with the amount of fine particles used in this procedure, can be obtained and, further, a film having a high property of luster can be obtained. In this case, the film is hardened by a hardener to obtain a film, having a high void volume without deteriorating the brittleness of the film.

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